FIG. 1

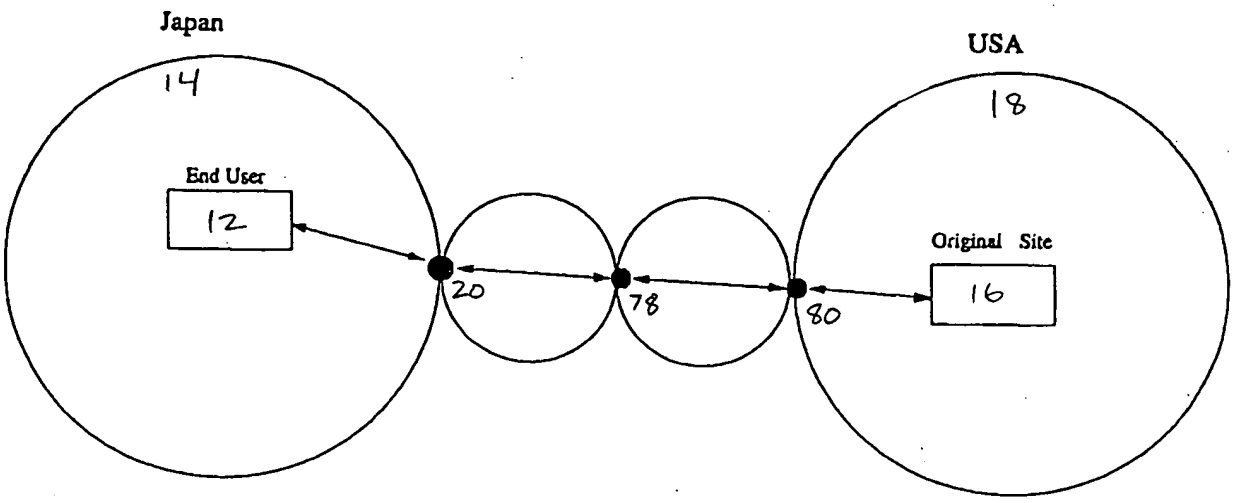
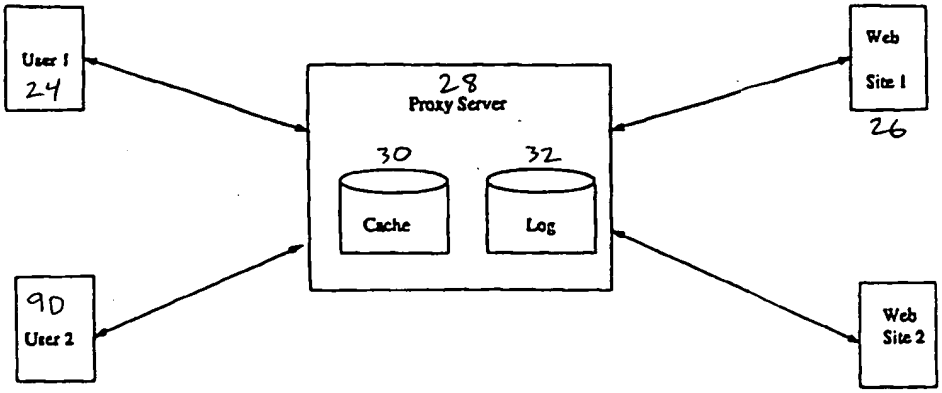


FIG. 2


User 1
24
28
Proxy Server
30
Cache
32
Log
Web
Site 1
26
90
User 2
Web
Site 2

22

FIG. 3

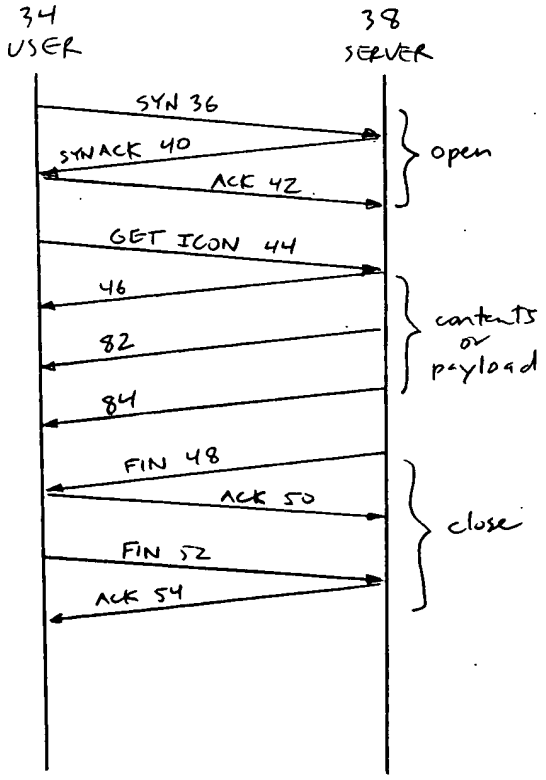

34
USER
38
SERVER
SYN 36
SYNACK 40
ACK 42
open
GET ICON 44
46
82
84
contents
or
payload
FIN 48
ACK 50
FIN 52
ACK 54
close

FIG. 4

FIG. 4(a)

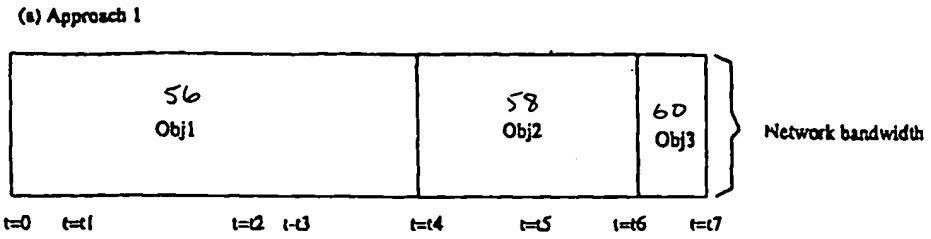


FIG. 4(b)

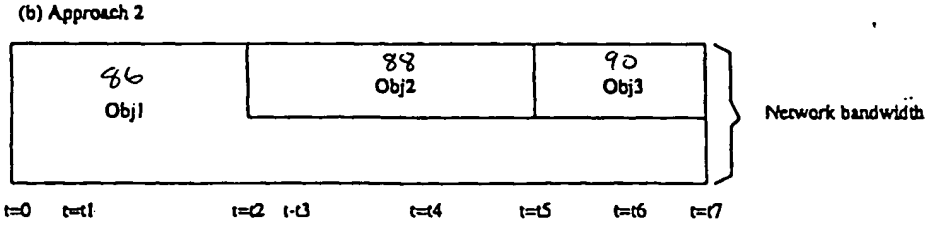


FIG. 4(c)

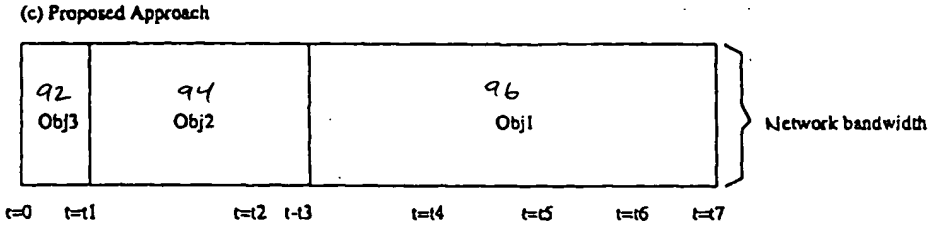


FIG. 5

FIG. 5(a)

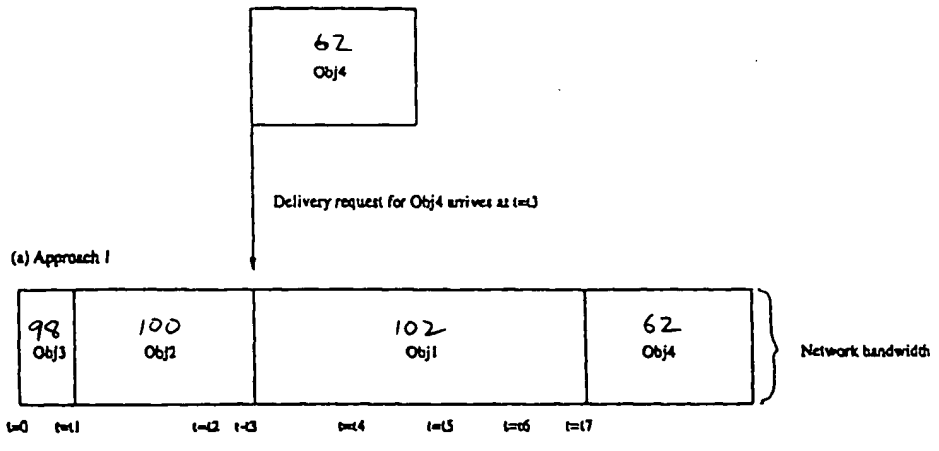


FIG. 5(b)

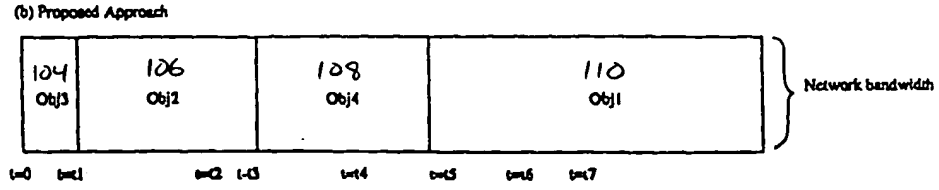


FIG. 6

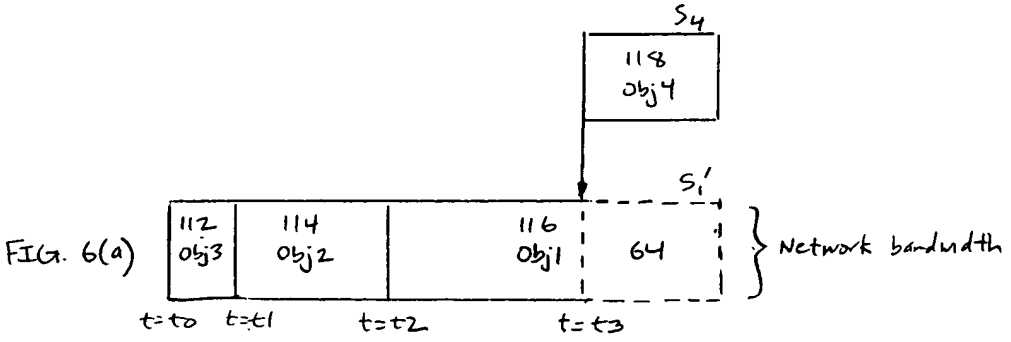


FIG. 6(a)

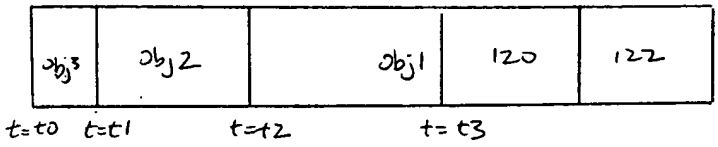


FIG. 6(b)

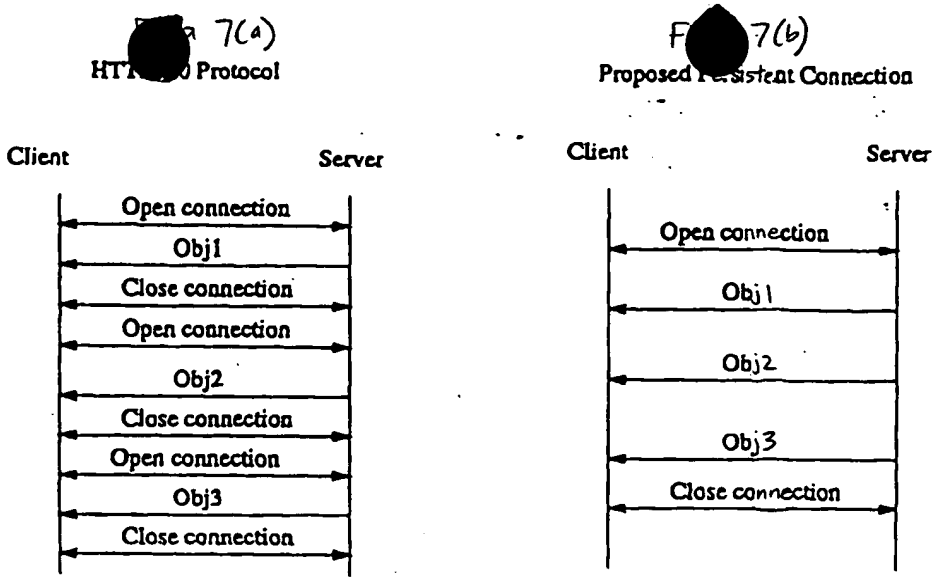


Figure 7: Overview of Object Fetch based on HTTP 1.0 Protocol versus Proposed Protocol

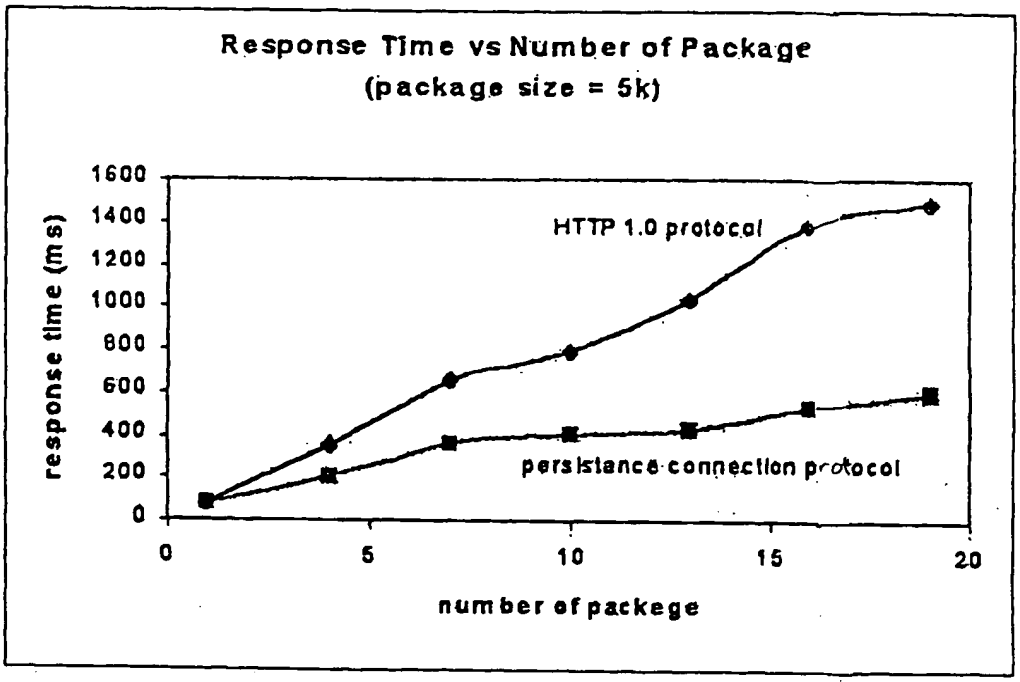


Figure 8: Response Time Comparisons between Object Fetch based on HTTP 1.0 Protocol and Object Fetch based on Proposed Protocol

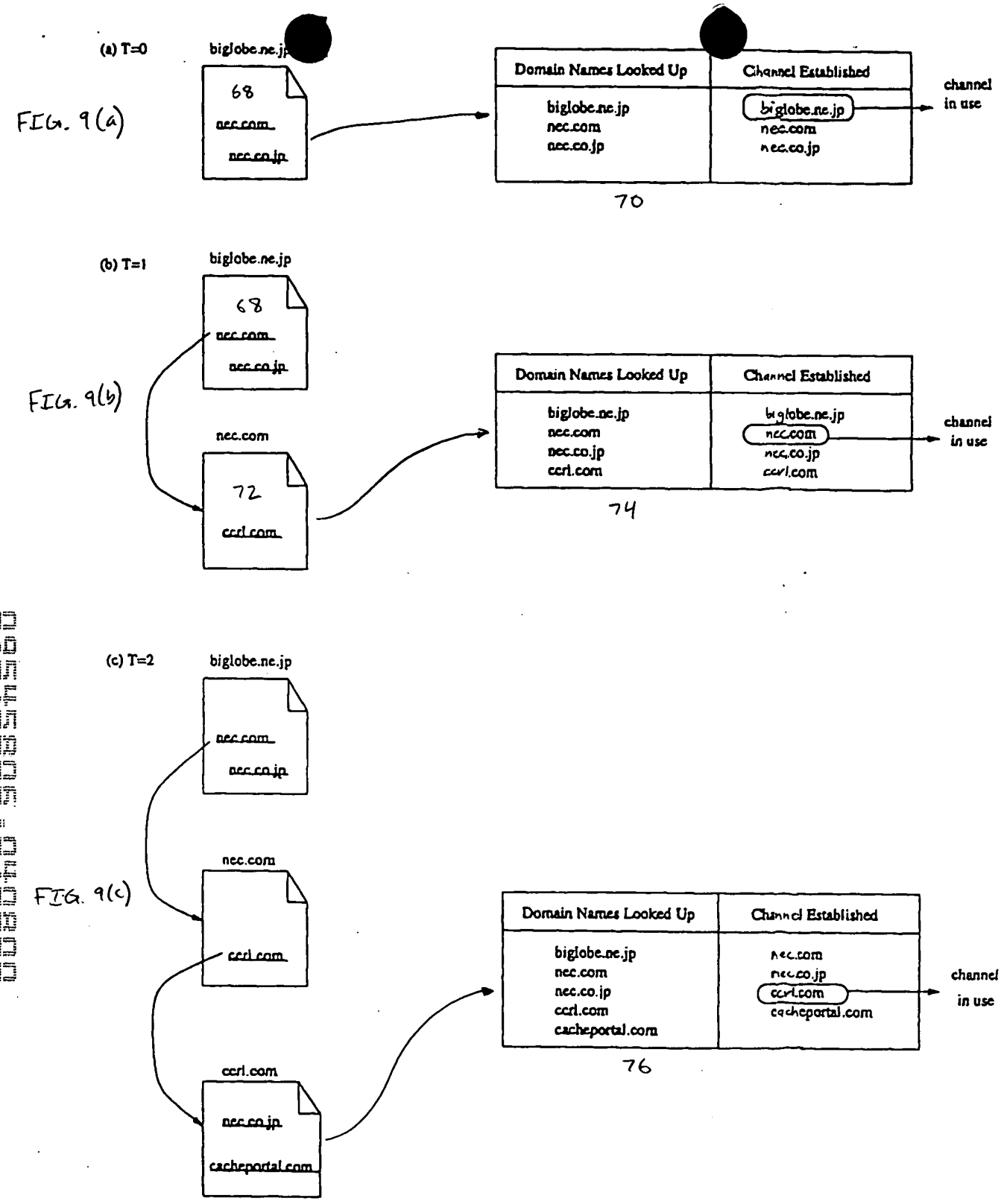


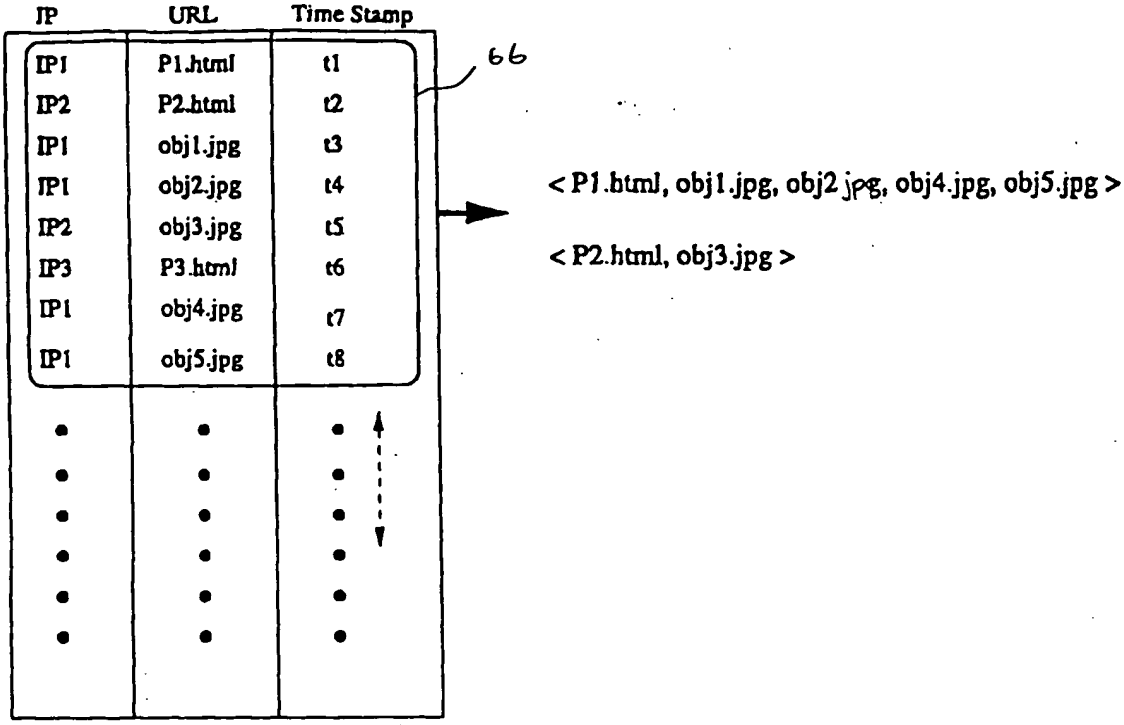
FIG. 9(a)

FIG. 9(b)

FIG. 9(c)

Figure 9: Overview of Pre-domain Name lookup and Pre-establishing Connection

FIG. 10


IP
URL
Time Stamp
IP1 P1.html t1
IP2 P2.html t2
IP1 obj1.jpg t3
IP1 obj2.jpg t4
IP2 obj3.jpg t5
IP3 P3.html t6
IP1 obj4.jpg t7
IP1 obj5.jpg t8
66
< P1.html, obj1.jpg, obj2.jpg, obj4.jpg, obj5.jpg >
< P2.html, obj3.jpg >